

What You Should Know About Your Auto; How To Drive and Keep It

Expert Advice How to Keep Automobiles Running Smoothly
and the Best Way to Remedy Machine Trouble—
Traffic Suggestions and Pleasure Routes
for Evening World Readers.

By GEORGE H. ROBERTSON.

MANY inquiries have been received lately asking for information regarding the carbonization of lubricating oils. Of course, there are various grades of oils, each with its special claims, but there is not, in my mind, an oil which will not carbonize. If a sample of fresh oil is entirely bottled away, it leaves a black layer of carbon on the interior of the vessel in which the oil is bottled. This deposit is called residual carbon. Mineral lubricating oils are hydro-carbons, that is, they consist of a chemical combination, in variable quantities, of the elements of carbon and hydrogen. It is evident, therefore, that there can be no such thing as a non-carbon oil. All oils when bottled or distilled to the end will leave a carbon residue, the quantity varying from a trace with highly filtered oils to a veritable crust with inferior oils. The amount of this carbon deposit depends largely upon the grade of the crude petroleum from which the lubricating oil is made, and the care and thoroughness used in the process of refining.

For the proper lubrication of piston, piston rings and cylinder walls, a film of oil must at all times cover their contact surfaces. The piston, driven forward by the exploding gases, exposes the protecting film of oil on the cylinder walls directly to the intense heat of the explosion, between 2,000 and 3,000 degrees Fahrenheit. This temperature is far above the flash point of any known oil. As a consequence, carbonization results. The hot carbon and the sulphur compounds freed by the combustion of the poor oil passing between valves and

valve seats erode and cut both, necessitating grinding.

The carbon deposits on the head of the piston decrease the size of the explosion chamber and cause what is commonly known as a carbon knock.

ANSWERS TO LETTERS.

I have seen quite a few dual tires on the rear of some touring cars. What are the benefits of these wheels, if any? GEORGE MORRISON.
On heavy motor vehicles where the types of solid tires would not have

sufficient capacity, it is customary to mount two of these tires on a common rim. This provides more capacity than a narrower tire used singly, and at the same time has important advantages over using a single wide tire adapted to fit the wheel rim. The use of two tires side by side not only provides greater resiliency and superior traction, but also tends to reduce side slip or skidding.

Automobile Editor:
I am having trouble with my car. The motor runs and the gears in the transmission are in good shape, but the car does not move. What is the trouble? What would you suggest? SAM T. MOORE.

Under the conditions stated the defect would exist in the driving mechanism at some point. A pin or driving key may have sheared off in the universal joint or bevel drive pinion or the propeller shaft may have become broken. The adjustment of the bearings holding the differential case may have loosened up so the ring gear has moved over out of engagement with the driving pinion. The rivets or bolts holding the ring gear to the differential case may have sheared off so that the gear is turning without producing movement of the differential casing. One of the driving shafts may have broken in the axle housing between the differential and the wheel hub or a hub cap on a full floating hub may have come off and allowed the driving shaft clutch to come out of engagement with the corresponding member on the hub.

Automobile Editor:
Have seen several grease manufacturers advocate a cork or wood fiber for use in the transmission. Is it good for the gears? JAMES NORTON.

Some makers advertise greases that are guaranteed to silence noisy gears. These contain particles of cork or shredded wood, designed to fill the space between the worn gear teeth and cushion the shock that oil or grease would not be capable of doing by itself. These greases should never be employed in gear sets if efficient operation is desired, because they not only interpose an item of serious frictional resistance and consume power, but are also entirely unsuited for the anti-friction ball or roller bearings used to support practically all change speed gear shafts.

Automobile Editor:
How may I become a racing driver? I am a young man, twenty-two years of age, and I am familiar with driving cars at high speed. C. S.

Would suggest that you secure employment with some concern that is about to enter a racing campaign. You would have to start low, but if you have the proper ability you may be able to secure a machine in a short time.

Big Artists for Granados Benefit

By Sylvester Rawling.

SOMETHING unusual is promised to-morrow night at the Metropolitan Opera House at the concert for the benefit of the six orphaned children of Granados, the Spanish composer, who, together with his wife, was drowned when the Sussex was torpedoed. Mr. Granados was returning to Spain after the first production of his opera "Goyescas" by the Metropolitan Opera Company, to supervise which he had been invited here. Maria Barrientos, Julia Culp, Paderewski, Fritz Kreisler, Pablo Casals and John McCormack will take part, an unprecedented galaxy of artists of the first rank. The lieutenants of the first rank, played by Paderewski, Kreisler and Casals, will be a feature. Mr. Kreisler will play the accompaniments for Mr. McCormack and Mr. Casals for Mme. Barrientos. Otto Kahn, Chairman of the Board of Directors of the Metropolitan Opera Company, is responsible for the testimonial. Not only have all the artists volunteered their services, but the house and everything necessary for the opening and management of it will be gratuitous. The free list is suspended.

Geraldine Farrar and Antonio Scotti may be seen and heard in the second act of "Madama Butterfly" at the Actors' Fund Benefit at the Metropolitan Opera House a week from next Tuesday afternoon. This will be the first appearance of Mr. Scotti since his serious illness of last winter. Frances Alda, Lucia Botta, Fritz Kreisler and Leopold Godowsky also will appear. Mr. Polacco will conduct.

The People's Music League of the People's Institute will complete its fourth season by a concert at Cooper Union to-morrow evening. The chorus of the Schola Cantorum, under the direction of Kurt Schindler, will sing, and Albert Spalding, violinist, will be the soloist. David Mannes, formerly director of the Music School Settlement, will make a brief address.

The regular monthly concert at the Music School Settlement will take place to-morrow afternoon. The feature will be the playing of the

Junior Orchestra. Melzar Chaffee, conductor. The public is invited.

Prof. Samuel A. Baldwin will give free organ recitals at the City College on to-morrow and Wednesday afternoons at 4 o'clock.

NEW YORK BABY WEEK IS OPENED TO-DAY

Anna Marie Hennessy, "Almost Perfect," Gets Start on Rivals for \$250 Prize.

Baby Week begins here to-day, and nineteen-months-old, Anna Marie Hennessy of No. 370 Eighth-fifth Street, Brooklyn, has got away to a flying start in the race for the \$250 cup to be given to the best baby. In a preliminary rivalry in which more than 3,000 infants were entered, Anna, it was announced at the completion of the trials yesterday, came within one-tenth of a point of the 100 units used to denote a mentally and physically perfect child. She and nine other gold medal winners in the preliminary trials will be re-examined in a final contest next week. If you own a baby, or hope to own a baby, or were ever a baby yourself, Mayor Mitchell and all the committees expect you to pin on baby blue and baby pink ribbons this morning and keep them on until the night of May 12, when Baby Week closes.

PROCTOR, PALACE AND LOEW BILLS.

Proctor's Fifth Avenue Theatre will have its usual vaudeville bill in addition to feature moving pictures. At Proctor's Fifty-eighth Street Theatre the Three Steindl Brothers in a musical act will head the vaudeville bill. Charley Chaplin in "Carmen" will be shown on the screen. Proctor's One Hundred and Twenty-fifth Street Theatre will have Crossman's Entertainers in instrumental music. Miller and Statzer, comedians, and others. Feature moving pictures will also be shown. The photo-play at Proctor's Twenty-third Street Theatre Monday will be "Blue Blood and Red," with George Walsh and Doris Pawn.

Jessie Clayton, with the Clayton Sextet, in "Dances of Yesterday," will head the bill at the Palace Theatre.

Among others will be McIntyre and Heath in "Waiting at the Church," William Rock and Frances White in songs and dances, and Lew Dockstader.

Loew's American Theatre and Roof, for the first half of the week, will have Mattie Choate and company in "The Mayor and the Manoeuvre," headlining the programme. At Loew's New York Theatre and Annex, Henry R. Walthall in "The Birth of a Man," a photo-play, will be the feature.

"RAMONA" ENTERS ITS 50TH PERFORMANCE.

The fiftieth performance of "Ramona," Clune's cinema-drama founded on Helen Hunt Jackson's famous love story, will be reached at the Forty-fourth Street Theatre on Monday. "Ramona" has the novelty of opera, drama and picture. It deals with the early days of California, the fierce gravity of the native Dons and the fiercer rapacity of the onrushing white homesteaders. It tells a story that carries a sermon, but there is also the charm of romance.

HERBERT WRITES SCORE FOR "FALL OF A NATION."

When "The Fall of a Nation," described as a grand opera cinema, is produced on Broadway next month, it will represent the collaboration of Thomas Dixon as author and Victor Herbert as composer. The announcement of Mr. Herbert's connection with the work is just made, though the contract was entered into nearly a year ago and he has been writing the score for the last eight months. The orchestration is now not only completed, but is in active rehearsal at Los Angeles, where the picture drama was made.

Herbert is the first American composer of the foremost rank to write an original cinema score for the full orchestra. The novelty of his effort consists in the fact that it is creative instead of selective. Hitherto the musical scores of even the most spectacular motion pictures have been "arranged," that is to say, borrowed bit by bit from well-known classical

or popular compositions and patched together by the musical director.

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